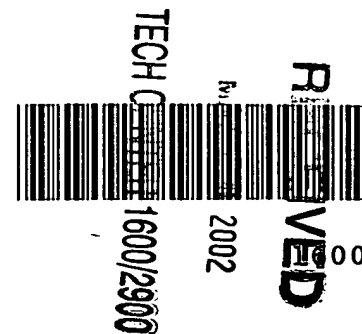


1653

9017  
Sheridan



RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/509,391

DATE: 04/29/2002  
TIME: 14:22:02

Input Set : A:\000648.txt  
Output Set: N:\CRF3\04292002\I509391.raw

ENTERED

3 <110> APPLICANT: KRIJGSVELD, Jeroen  
4 ZAAAT, Sebastianus Antonius Johannes  
5 DANKERT, Jacob  
6 KUIJPERS, Alma Johanna  
7 ENGBERS, Gerardus Henricus Maria  
8 FEIJEN, Jan  
10 <120> TITLE OF INVENTION: Isolated and Recombinant Antimicrobial Peptides  
11 Thrombocidin-1 (TC-1) and Thrombocidin-2 (TC-2)  
12 or Variants Thereof  
14 <130> FILE REFERENCE: 702 000648  
16 <140> CURRENT APPLICATION NUMBER: 09/509,391  
17 <141> CURRENT FILING DATE: 2000-07-07  
19 <150> PRIOR APPLICATION NUMBER: EP 97202934.2  
20 <151> PRIOR FILING DATE: 1997-09-25  
22 <150> PRIOR APPLICATION NUMBER: EP 98201411.0  
23 <151> PRIOR FILING DATE: 1998-05-01  
25 <160> NUMBER OF SEQ ID NOS: 18  
27 <170> SOFTWARE: MS Word 97 SR-2  
29 <210> SEQ ID NO: 1  
30 <211> LENGTH: 85  
31 <212> TYPE: PRT  
32 <213> ORGANISM: Homo sapiens  
34 <220> FEATURE:  
35 <223> OTHER INFORMATION: CTAP-III (connective tissue activating peptide)  
37 <400> SEQUENCE: 1  
38 Asn Leu Ala Lys Gly Lys Glu Glu Ser Leu Asp Ser Asp Leu Tyr Ala  
39 1 5 10 15  
40 Glu Leu Arg Cys Met Cys Ile Lys Thr Ser Gly Ile His Pro Lys  
41 20 25 30  
42 Asn Ile Gln Ser Leu Glu Val Ile Gly Lys Gly Thr His Cys Asn Gln  
43 35 40 45  
44 Val Glu Val Ile Ala Thr Leu Lys Asp Gly Arg Lys Ile Cys Leu Asp  
45 50 55 60  
46 Pro Asp Ala Pro Arg Ile Lys Lys Ile Val Gln Lys Lys Leu Ala Gly  
47 65 70 75 80  
48 Asp Glu Ser Ala Asp  
49 85  
51 <210> SEQ ID NO: 2  
52 <211> LENGTH: 4  
53 <212> TYPE: PRT  
54 <213> ORGANISM: Homo sapiens  
56 <220> FEATURE:  
57 <223> OTHER INFORMATION: N-terminus of TC-1a and TC-1b thrombocidins

## RAW SEQUENCE LISTING

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59 &lt;400&gt; SEQUENCE: 2

60 Ala Glu Leu Arg

61 1

63 &lt;210&gt; SEQ ID NO: 3

64 &lt;211&gt; LENGTH: 68

65 &lt;212&gt; TYPE: PRT

66 &lt;213&gt; ORGANISM: Homo sapiens

68 &lt;220&gt; FEATURE:

69 &lt;223&gt; OTHER INFORMATION: TC-1\* thrombocidin variant

71 &lt;400&gt; SEQUENCE: 3

72 Ala Glu Leu Arg Cys Met Cys Ile Lys Thr Thr Ser Gly Ile His Pro

73 1 5 10 15

74 Lys Asn Ile Gln Ser Leu Glu Val Ile Gly Lys Gly Thr His Cys Asn

75 20 25 30

76 Gln Val Glu Val Ile Ala Thr Leu Lys Asp Gly Arg Lys Ile Cys Leu

77 35 40 45

78 Asp Pro Asp Ala Pro Arg Ile Lys Lys Ile Val Gln Lys Lys Leu Ala

79 50 55 60

80 Gly Asp Glu Ser

81 65

83 &lt;210&gt; SEQ ID NO: 4

84 &lt;211&gt; LENGTH: 5

85 &lt;212&gt; TYPE: PRT

86 &lt;213&gt; ORGANISM: Homo sapiens

88 &lt;220&gt; FEATURE:

89 &lt;223&gt; OTHER INFORMATION: N-terminus of TC-1d thrombocidin

91 &lt;400&gt; SEQUENCE: 4

92 Tyr Ala Glu Leu Arg

93 1 5

95 &lt;210&gt; SEQ ID NO: 5

96 &lt;211&gt; LENGTH: 5

97 &lt;212&gt; TYPE: PRT

98 &lt;213&gt; ORGANISM: Homo sapiens

100 &lt;220&gt; FEATURE:

101 &lt;223&gt; OTHER INFORMATION: C-terminus of TC-1d thrombocidin

103 &lt;400&gt; SEQUENCE: 5

104 Ala Gly Asp Glu Ser

105 1 5

107 &lt;210&gt; SEQ ID NO: 6

108 &lt;211&gt; LENGTH: 83

109 &lt;212&gt; TYPE: PRT

110 &lt;213&gt; ORGANISM: Homo sapiens

112 &lt;220&gt; FEATURE:

113 &lt;223&gt; OTHER INFORMATION: TC-2 thrombocidin

115 &lt;400&gt; SEQUENCE: 6

116 Asn Leu Ala Lys Gly Lys Glu Glu Ser Leu Asp Ser Asp Leu Tyr Ala

117 1 5 10 15

118 Glu Leu Arg Cys Met Cys Ile Lys Thr Thr Ser Gly Ile His Pro Lys

119 20 25 30

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DATE: 04/29/2002

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TIME: 14:22:02

Input Set : A:\000648.txt

Output Set: N:\CRF3\04292002\I509391.raw

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120 Asn Ile Gln Ser Leu Glu Val Ile Gly Lys Gly Thr His Cys Asn Gln
121      35              40              45
122 Val Glu Val Ile Ala Thr Leu Lys Asp Gly Arg Lys Ile Cys Leu Asp
123      50              55              60
124 Pro Asp Ala Pro Arg Ile Lys Lys Ile Val Gln Lys Lys Leu Ala Gly
125 65              70              75              80
126 Asp Glu Ser
128 <210> SEQ ID NO: 7
129 <211> LENGTH: 34
130 <212> TYPE: DNA
131 <213> ORGANISM: Homo sapiens
133 <220> FEATURE:
134 <223> OTHER INFORMATION: Forward primer
136 <220> FEATURE:
137 <221> NAME/KEY: misc_feature
138 <222> LOCATION: (5)...(10)
139 <223> OTHER INFORMATION: BamHI restriction site
141 <400> SEQUENCE: 7
142 tataggatcc atgagcctca gacttgatac cacc
144 <210> SEQ ID NO: 8
145 <211> LENGTH: 38
146 <212> TYPE: DNA
147 <213> ORGANISM: Homo sapiens
149 <220> FEATURE:
150 <223> OTHER INFORMATION: Reverse primer
152 <220> FEATURE:
153 <221> NAME/KEY: misc_feature
154 <222> LOCATION: (5)...(10)
155 <223> OTHER INFORMATION: BamHI restriction site
157 <220> FEATURE:
158 <221> NAME/KEY: terminator
159 <222> LOCATION: (11)...(13)
160 <223> OTHER INFORMATION: Stop sequence
162 <400> SEQUENCE: 8
163 tataggatcc tcaatcagca gattcatcac ctgccaat
165 <210> SEQ ID NO: 9
166 <211> LENGTH: 33
167 <212> TYPE: DNA
168 <213> ORGANISM: Homo sapiens
170 <220> FEATURE:
171 <223> OTHER INFORMATION: Forward primer for CTAP-III and TC-2
173 <220> FEATURE:
174 <221> NAME/KEY: misc_feature
175 <222> LOCATION: (7)...(12)
176 <223> OTHER INFORMATION: NdeI restriction site
178 <400> SEQUENCE: 9
179 gtgtaacata tgaacttggc gaaaggcaaa gag
181 <210> SEQ ID NO: 10
182 <211> LENGTH: 33

```

34

38

33

## RAW SEQUENCE LISTING

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DATE: 04/29/2002

TIME: 14:22:02

Input Set : A:\000648.txt

Output Set: N:\CRF3\04292002\I509391.raw

```

183 <212> TYPE: DNA
184 <213> ORGANISM: Homo sapiens
186 <220> FEATURE:
187 <223> OTHER INFORMATION: Forward primer for NAP-2 and TC-1*
189 <220> FEATURE:
190 <221> NAME/KEY: misc_feature
191 <222> LOCATION: (7)...(12)
192 <223> OTHER INFORMATION: NdeI restriction site
194 <400> SEQUENCE: 10
195 gtgtaacata tgtatgctga actccgctgc atg                                     33
197 <210> SEQ ID NO: 11
198 <211> LENGTH: 36
199 <212> TYPE: DNA
200 <213> ORGANISM: Homo sapiens
202 <220> FEATURE:
203 <223> OTHER INFORMATION: Forward primer for TC-1
205 <220> FEATURE:
206 <221> NAME/KEY: misc_feature
207 <222> LOCATION: (7)...(12)
208 <223> OTHER INFORMATION: NdeI restriction site
210 <400> SEQUENCE: 11
211 gtgtaacata tgtatctccg ctgcatgtgt ataaag                               36
213 <210> SEQ ID NO: 12
214 <211> LENGTH: 68
215 <212> TYPE: PRT
216 <213> ORGANISM: Homo sapiens
218 <220> FEATURE:
219 <223> OTHER INFORMATION: TC-1 thrombocidin
221 <400> SEQUENCE: 12
222 Leu Arg Cys Met Cys Ile Lys Thr Thr Ser Gly Ile His Pro Lys Asn
223   1      5      10      15
224 Ile Gln Ser Leu Glu Val Ile Gly Lys Gly Thr His Cys Asn Gln Val
225      20      25      30
226 Glu Val Ile Ala Thr Leu Lys Asp Gly Arg Lys Ile Cys Leu Asp Pro
227      35      40      45
228 Asp Ala Pro Arg Ile Lys Lys Ile Val Gln Lys Lys Leu Ala Gly Asp
229      50      55      60
230 Glu Ser Ala Asp
231 65
233 <210> SEQ ID NO: 13
234 <211> LENGTH: 70
235 <212> TYPE: PRT
236 <213> ORGANISM: Homo sapiens
238 <220> FEATURE:
239 <223> OTHER INFORMATION: NAP-2 (neutrophil activating peptide)
241 <400> SEQUENCE: 13
242 Ala Glu Leu Arg Cys Met Cys Ile Lys Thr Thr Ser Gly Ile His Pro
243   1      5      10      15
244 Lys Asn Ile Gln Ser Leu Glu Val Ile Gly Lys Gly Thr His Cys Asn

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/509,391

DATE: 04/29/2002

TIME: 14:22:02

Input Set : A:\000648.txt

Output Set: N:\CRF3\04292002\I509391.raw

```

245          20          25          30
246 Gln Val Glu Val Ile Ala Thr Leu Lys Asp Gly Arg Lys Ile Cys Leu
247          35          40          45
248 Asp Pro Asp Ala Pro Arg Ile Lys Lys Ile Val Gln Lys Lys Leu Ala
249          50          55          60
250 Gly Asp Glu Ser Ala Asp
251 65          70
253 <210> SEQ ID NO: 14
254 <211> LENGTH: 69
255 <212> TYPE: PRT
256 <213> ORGANISM: Escherichia coli
258 <220> FEATURE:
259 <223> OTHER INFORMATION: rMTC-1* (TC-1* carrying an additional N-terminal methionine)
261 <400> SEQUENCE: 14
262 Met Ala Glu Leu Arg Cys Met Cys Ile Lys Thr Thr Ser Gly Ile His
263 1          5          10          15
264 Pro Lys Asn Ile Gln Ser Leu Glu Val Ile Gly Lys Gly Thr His Cys
265          20          25          30
266 Asn Gln Val Glu Val Ile Ala Thr Leu Lys Asp Gly Arg Lys Ile Cys
267          35          40          45
268 Leu Asp Pro Asp Ala Pro Arg Ile Lys Lys Ile Val Gln Lys Lys Leu
269          50          55          60
270 Ala Gly Asp Glu Ser
271 65
273 <210> SEQ ID NO: 15
274 <211> LENGTH: 84
275 <212> TYPE: PRT
276 <213> ORGANISM: Escherichia coli
278 <220> FEATURE:
279 <223> OTHER INFORMATION: rMTC-2 (TC-2 carrying an additional N-terminal methionine)
281 <400> SEQUENCE: 15
282 Met Asn Leu Ala Lys Gly Lys Glu Glu Ser Leu Asp Ser Asp Leu Tyr
283 1          5          10          15
284 Ala Glu Leu Arg Cys Met Cys Ile Lys Thr Thr Ser Gly Ile His Pro
285          20          25          30
286 Lys Asn Ile Gln Ser Leu Glu Val Ile Gly Lys Gly Thr His Cys Asn
287          35          40          45
288 Gln Val Glu Val Ile Ala Thr Leu Lys Asp Gly Arg Lys Ile Cys Leu
289          50          55          60
290 Asp Pro Asp Ala Pro Arg Ile Lys Lys Ile Val Gln Lys Lys Leu Ala
291 65          70          75          80
292 Gly Asp Glu Ser
294 <210> SEQ ID NO: 16
295 <211> LENGTH: 91
296 <212> TYPE: PRT
297 <213> ORGANISM: Escherichia coli
299 <220> FEATURE:
300 <223> OTHER INFORMATION: rYTC-1 (TC-1 with an N-terminal His-tag, plus a tyrosine
residue)
302 <220> FEATURE:

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VERIFICATION SUMMARY

DATE: 04/29/2002

PATENT APPLICATION: US/09/509,391

TIME: 14:22:03

Input Set : A:\000648.txt

Output Set: N:\CRF3\04292002\I509391.raw